

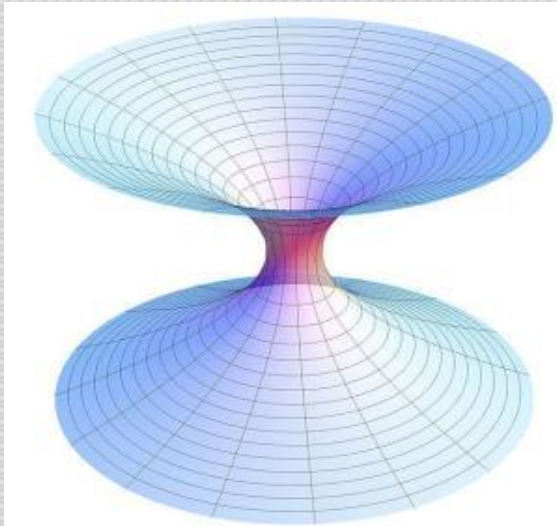
QUANTUM ENTANGLEMENT: WORM HOLES

ANDREW WRIGHT

[HTTP://WWW.SCIENCEDAILY.COM/RELEASES/2013/12/131205142218.HTM](http://www.sciencedaily.com/releases/2013/12/131205142218.HTM)

Quantum entanglement is a very bizarre theory that arose out of quantum mechanics. Quantum entanglement involves two particles, each of which occupying multiple states at once. Basically, this says that both particles could simultaneously spin clockwise and counterclockwise. Neither particle has a definite state until measured, which causes the other particle to assume a corresponding state (these correlations are observed, even if they're on opposite ends of the universe).

Communicating instantaneously, how is this possible? Such an act is possible with “wormholes” or gravitational tunnels. When 2 entangled black holes are pulled apart, they form a wormhole; essentially a shortcut through the universe. This is shown in the image below.



• Quantum mechanics and gravity?

- Gravity has not been able to be united with quantum mechanics since its origin. Quantum entanglement could give rise to quantum mechanics and gravity being united. The theory of quantum entanglement could show that the laws of gravity holding the universe together may not be fundamental at all, but instead arise from the complex theory of quantum entanglement!
- An MIT physicist has found that, the creation of two entangled quarks, when looked through the lens of string theory, simultaneously gives rise to a wormhole connecting the pair!

